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1 On computing nearest singular hankel matrices

Markus A. Hitz

 July 2005 **ISSAC '05: Proceedings of the 2005 international symposium on algebraic computation**
Publisher: ACM

 Full text available: Pdf (97.60 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)
Bibliometrics: Downloads (6 Weeks): 0, Downloads (12 Months): 19, Citation (

We explore the problem of computing a nearest singular matrix to a given Hankel matrix while preserving the structure of the matrix. Nearness is matrix norm, or a componentwise norm. A recent result for structured matrices ...

Keywords: Hankel, Toeplitz, hybrid symbolic/numeric computing, near matrix, parametric minimization

2 Block variants of Hammarling's method for solving Lyapunov equations

Daniel Kressner

 January 2008 **Transactions on Mathematical Software (TOMS)**, Volume

Publisher: ACM

 Full text available: Pdf (240.40 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)
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This article is concerned with the efficient numerical solution of the Lyapunov equation $A^T X + XA = -C$ with a stable matrix A and a symmetric positive semidefinite matrix C ...

Keywords: Lyapunov equation, block algorithm, numerical solution

3 A more reliable reduction algorithm for behavioral model extraction

D. Vasilyev, J. White

 May 2005 **ICCAD '05: Proceedings of the 2005 IEEE/ACM International Conference on Computer-aided design**
Publisher: IEEE Computer Society

 Full text available: Pdf (357.66 KB) Additional Information: [full citation](#), [abstract](#), [reference](#)
Bibliometrics: Downloads (6 Weeks): 2, Downloads (12 Months): 24, Citation (

In this paper we are concerned with developing more reliable model reduction algorithms ...

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